B1

- - The present invention relates to a human brain-derived protein, a partial peptide thereof or a salt thereof, a DNA encoding the receptor protein, a process for producing the protein, a method for determining a ligand for the G protein-coupled receptor protein, a method for screening/a kit for screening a compound which alters property of a ligand binding with the protein, a compound or a salt thereof obtainable by the screening, an antibody to the G protein-coupled receptor protein and the like. The human brain-derived G protein-coupled receptor protein or the DNA encoding the protein of the present invention are useful as or in (1) determination of a ligand, (2) obtaining of an antibody and antiserum, (3) construction of the expression system for a recombinant receptor protein, (4) development of receptor binding assay using the same expression system and screening of drug candidates, (5) implementation of drug design nucleotide on comparison with a ligand receptor having the structural similarity, (6) reagents for preparing a probe or a PCR primer in gene therapy, (7) production of a transgenic animal, or (8) a drug for gene prophylaxis or therapy. - -

B2

1. (TWICE Amended) A protein comprising an amino acid sequence represented by SEQ ID NO.:1, or a salt thereof.

B3

17. (NEW) A protein comprising (i) an amino acid sequence in which 1 to 30 amino acids in the amino acid sequence represented by SEQ ID NO.:1 are deleted, (ii) an amino acid sequence in which 1 to 30 amino acids are added to the amino acid sequence represented by SEQ ID NO.:1, (iii) an amino acid sequence in which 1 to 30 amino acids in the amino acid sequence represented by SEQ ID NO.:1 are substituted with another amino acid or (iv) an amino acid sequence in combination thereof with an amino acid sequence represented by SEQ ID NO.:1, said combination having a ligand binding activity or signal information transmitting action the same as that of the protein comprising an amino acid sequence represented by SEQ ID NO.:1.